Patent Claims

1. A modular infrastructure device (100), comprising:

- at least one base unit (102) comprising two or more supporting elements (106) which support one or more roof elements (108) in such a way that the base unit (102) comprises a roofing unit (110) by means of which a roofed area is formed;
- multiple infrastructure units (104) comprising one or more connecting devices (128, 130) for connecting the multiple infrastructure units (104) to one or more user units (116);
- one or more independent supply units (136) for generating and/or providing electrical energy;
- a central unit (142) which is coupled to the multiple infrastructure units (104), the one or more user units (116) and the one or more independent supply units (136), wherein the central unit (142) and the multiple infrastructure units (104) are embodied and configured in such a way that

a) operation, operator control and use of the multiple infrastructure units (104) and the one or more independent supply units (136) are detected, open-loop and/or closed-loop controlled and/or are signaled to a superordinate monitoring system (166) by means of the central unit (142);

b) an infrastructure service which is made use of by a person or a user unit is detected; and

- a payment system with at least one of RFID, insertion of coins, insertion of bank notes, magnetic card, credit card and smartphone connection (App) for billing the infrastructure service which is made use of.

2. The modular infrastructure device (100) as claimed in claim 1, wherein one or more infrastructure units (104) comprise a communication unit (126), an information unit (122), a storage unit (170), a display unit

(124) and/or a provision device (132), in particular a vending machine (134).

3. The modular infrastructure device (100) as claimed in claim 1 or 2, wherein electrical energy, data, information, food products, commodities and/or consumables are providable for one or more user units (116) and/or for one or more persons (112) by means of one or more infrastructure units (104), in particular are dispensable to one or more user units (116) and/or to one or more persons (112).

4. The modular infrastructure device (100) as claimed in one of claims 1 to 3, wherein one or more user units (116) are mobile units, for example electrical vehicles (118), smartphones (120), etc.

5. The modular infrastructure device (100) as claimed in one of claims 1 to 4, wherein the at least one base unit (102) is itself of modular design.

6. An infrastructure system (164), comprising one or more modular infrastructure devices (100) as claimed in one of claims 1 to 5.

7. A method for operating one or more infrastructure devices (100) as claimed in one of claims 1 to 5, wherein the method comprises the following:
   - Providing multiple infrastructure units (104) for supplying persons (112) or objects (118, 120) with electrical energy, data, information, food products, commodities and/or consumables;
   - Detecting, open-loop and/or closed-loop controlling of at least one of operation, operator control and use of the multiple infrastructure units (104) by means of a central unit (142), in particular using data received from a person (112) or a user unit (116).